What is claimed is:

- 1 1: A method for at least partially compensating luminance of an emissive display
- 2 comprising:
- 3 estimating the amount of degradation of one or more organic light emitting diodes
- 4 (OLEDs) included in said emissive display; and
- adjusting the luminance of said one or more OLEDs based, at least in part, upon
- 6 said estimate.

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- 1 2: The method of claim 1, wherein adjusting comprises adjusting the luminance so that
- 2 said luminance remains substantially constant substantially independent of the amount of
- 3 degradation of said one or more OLEDs.
- 1 3: The method of claim 2, wherein estimating includes estimating a characteristic
- 2 substantially correlated with said degradation.
- 1 4: The method of claim 3, wherein said estimating includes measuring the voltage across
- 2 said one or more OLEDs at a substantially constant current flow through said one or
- 3 more OLEDs.
- 1 5: The method of claim 2, wherein measuring said voltage across said one or more
- 2 organic light emitting diodes (OLEDs) includes measuring the reverse bias resistance of
- 3 said one or more OLEDs.
- 1 6: The method of claim 1, wherein adjusting includes adjusting the amount of electrical
- 2 energy applied to said one or more organic light emitting diodes (OLEDs).

- 7: The method of claim 6, wherein adjusting includes increasing the voltage applied
- 2 across said one or more OLEDs.
- 1 8: The method of claim 7, wherein increasing includes utilization of a lookup table.
- 9: The method of claim 8, wherein said lookup table includes values such that the
- 2 luminance of said one or more organic light emitting diodes (OLEDs) achieved by the
- 3 adjustment essentially decreases over time.
- 1 10: The method of claim 1, wherein said method further comprises adjusting the
- 2 luminance of said one or more organic light emitting diodes (OLEDs) based, at least in
- 3 part, upon estimating the amount of degradation of one or more other organic light
- 4 emitting diodes (OLEDs).
- 1 11: An apparatus comprising:
- 2 one or more organic light emitting diodes (OLEDs);
- a measurement circuit; and
- 4 a control system;
- 5 wherein said OLEDs, said measurement circuit and said control system are
- 6 coupled so that, during operation, said measurement circuit, estimates the amount of
- 7 degradation of said one or more OLEDS and said control system adjusts the luminance of
- 8 said OLEDs, based at least in part upon said estimated degradation.
- 1 12: The apparatus of claim 11, wherein said control system is capable of adjusting the
- 2 luminance so that said luminance remains substantially constant substantially
- 3 independent of the amount of degradation of said one or more OLEDs.

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- 1 13: The apparatus of claim 1, wherein the estimation of the amount of degradation, made
- 2 by said measurement circuit, includes an estimation of a characteristic substantially
- 3 correlated with said degradation.
- 1 14: The apparatus of claim 13, wherein said measurement circuit is capable of measuring
- 2 the reverse bias resistance of said one or more organic light emitting diodes (OLEDs)
- 3 operating at a substantially constant current.
- 1 15: The apparatus of claim 12, wherein said control system is capable of adjusting said
- 2 luminance of said one or more organic light emitting diodes (OLEDs) by adjusting the
- 3 substantially instantaneous current through said OLEDs.
- 1 16: The apparatus of claim 11, wherein said control system comprises a series of data
- 2 that correlates a desired luminance with the estimated degradation of said one or more
- 3 OLEDs.
- 1 17: The apparatus of claim 16, wherein said control system utilizes said series of data to
- 2 adjust the luminance of said one or more OLEDs.
- 1 18: The apparatus of claim 17, wherein said control system comprises a series of data
- 2 that correlates a desired luminance with the estimated degradation of said one or more
- 3 OLEDs such that said desired luminance decreases as said estimated degradation of said
- 4 one or more OLEDs increases.
- 1 19: The apparatus of claim 12, wherein said control system includes a storage medium
- 2 having a plurality of machine accessible instructions, wherein, when said instructions are
- 3 executed by said control system, the instructions provide for

- 4 utilizing a signal from said measuring circuit;
- 5 estimating a desired luminance for said OLEDs; and
- adjusting the current applied to said OLEDs based at least in part upon said
- 7 signal.
- 1 20: A system comprising:
- a receiver which receives, from a source physically remote from said system,
- 3 video signals in a digital format;
- an array of one or more organic light emitting diodes (OLEDs);
- 5 a measurement circuit; and
- 6 a control system;
- 7 wherein said receiver disperses said digital signals to said array of OLEDs, and
- 8 wherein said array of OLEDs, said measurement circuit and said control system
- 9 are coupled so that, during operation, said measurement circuit, estimates the amount of
- degradation of said one or more OLEDS and said control system adjusts the luminance of
- said OLEDs, based at least in part upon said estimated degradation.
 - 1 21: The system of claim 20, wherein said control system is capable of adjusting the
 - 2 luminance so that said luminance remains substantially constant substantially
 - 3 independent of the amount of degradation of said array of OLEDs.
 - 1 22: The system of claim 20, wherein the estimation of the amount of degradation, made
 - 2 by said measurement circuit, includes an estimation of a characteristic substantially
 - 3 correlated with said degradation.

- 2 the reverse bias resistance of said at least one OLED operating at a substantially
- 3 predetermined current.
- 1 24: The system of claim 22, wherein said control system is capable of adjusting said
- 2 luminance of said array of organic light emitting diodes (OLEDs) by adjusting the
- 3 substantially instantaneous current through said array of OLEDs.
- 1 25: The system of claim 24, wherein control system includes a storage medium having a
- 2 plurality of machine accessible instructions, wherein, when said instructions are executed
- 3 by said control system, the instructions provide for
- 4 utilizing a signal from said measuring circuit;
- 5 estimating a desired luminance for said OLEDs; and
- 6 adjusting the current applied to said OLEDs based at least in part upon said
- 7 signal.

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- 1 26: The system of claim 24, wherein said control system comprises a series of data that
- 2 correlates a desired luminance with the estimated degradation of said array of OLEDs
- 3 and said control system utilizes said series of data to adjust the luminance of said array of
- 4 OLEDs.
- 1 27: The system of claim 26, wherein said control system comprises a series of data that
- 2 correlates a desired luminance with the estimated degradation of said one or more
- 3 OLEDs such that said desired luminance decreases as said degradation of said one or
- 4 more OLEDs increases.

- 1 28: The system of claim 21, wherein said control system comprises a plurality of control
- 2 sub-systems, said respective sub-systems to adjust the output luminance of a particular
- 3 respective sub-set of said array of one or more organic light emitting diodes (OLEDs).
- 1 29: The system of claim 28, wherein the organic light emitting diodes (OLEDs) of said
- 2 array is coupled to a measurement circuit and control system which is capable of
- 3 measuring the degradation of said respective OLEDs and is capable of respectively
- 4 adjusting the luminance of said respective OLEDs.